

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036128.D
 Acq On : 9 Dec 2020 12:58
 Operator : SY/AP
 Sample : L4948-09
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8B

Manual Integrations
 APPROVED

MMDadoda
 12/11/2020 12:24:26 PM

Quant Time: Dec 10 21:56:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1314086	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2648647	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2385132	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2040772	10.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	52871m	0.345	ppbv	
3) Chlorodifluoromethane	2.99	51	74871m	0.499	ppbv	
4) Chloromethane	3.14	50	21306	0.289	ppbv #	77
9) Propene	3.02	41	43436	0.578	ppbv	84
11) Trichlorofluoromethane	3.96	101	74414m	0.413	ppbv	
13) Ethanol	3.61	45	811585	78.385	ppbv	87
15) Acetone	3.86	43	505858	3.203	ppbv	98
19) Isopropyl Alcohol	3.98	45	61268m	0.635	ppbv	
20) Methylene Chloride	4.35	84	1200287	18.546	ppbv	99
26) Hexane	5.70	57	530240	3.734	ppbv #	40
29) Chloroform	5.76	83	33254	0.178	ppbv	84
30) Cyclohexane	7.15	84	30654m	0.294	ppbv	
34) 2-Butanone	5.27	43	128619	0.732	ppbv	97
35) Carbon Tetrachloride	7.04	117	10923m	0.071	ppbv	
36) Benzene	6.90	78	28695	0.128	ppbv	93
41) Tetrahydrofuran	6.08	42	17093	0.164	ppbv #	78
52) Tetrachloroethene	11.24	164	10396m	0.128	ppbv	
53) Toluene	9.82	91	116079	0.461	ppbv	98
59) m/p-Xylene	13.00	91	125726m	0.457	ppbv	
60) o-Xylene	13.71	91	47126m	0.182	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	36227m	0.134	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

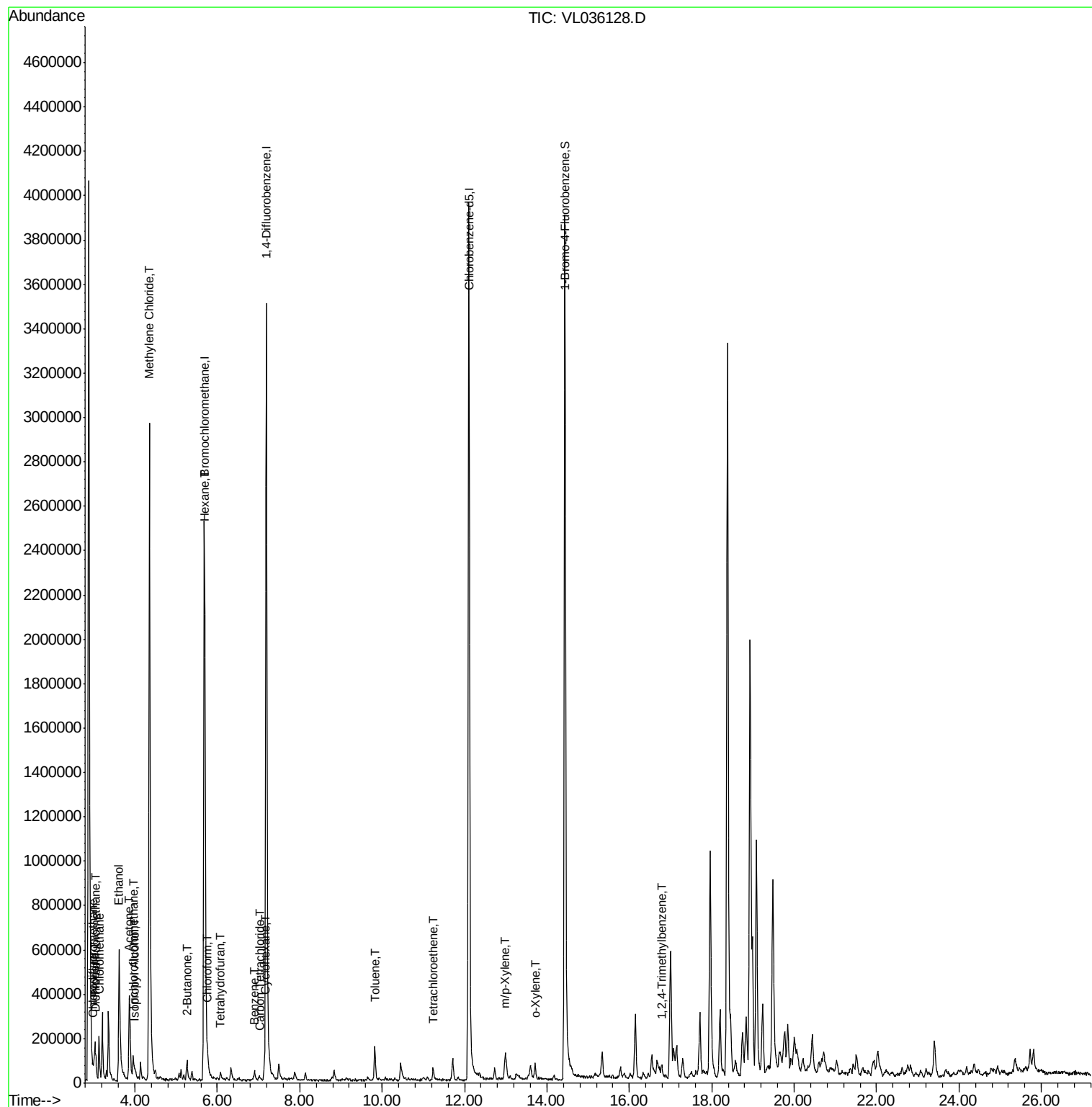
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120820\
Data File : VL036128.D
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Operator : SY/AP
Sample : L4948-09
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

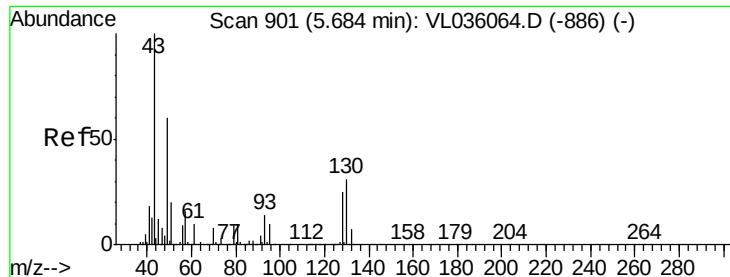
Instrument :
MSVOA_L
ClientSampleId :
SS-8B

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Quant Time: Dec 10 21:56:45 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL036128.D

Acq: 9 Dec 2020 12:58

Instrument :

MSVOA_L

ClientSampled :

SS-8B

Tot Ion: 49 Resp: 1314086

Ion Ratio Lower Upper

49 100

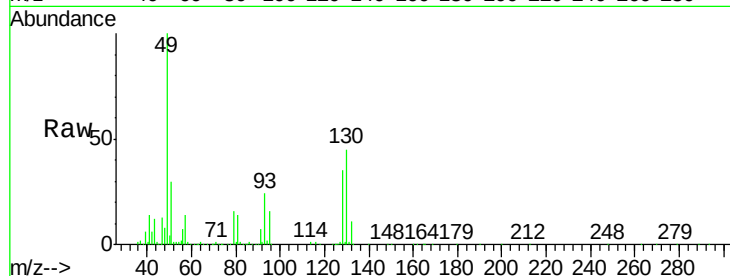
128 36.0 21.1 63.1

130 47.7 27.1 81.3

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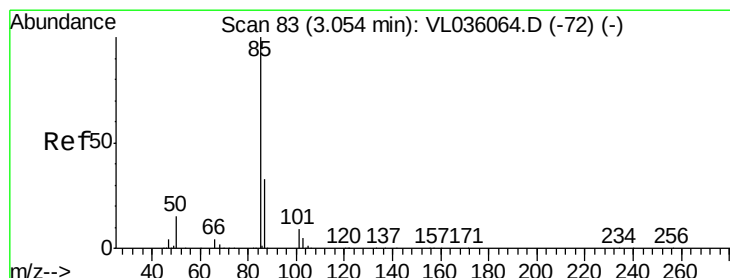
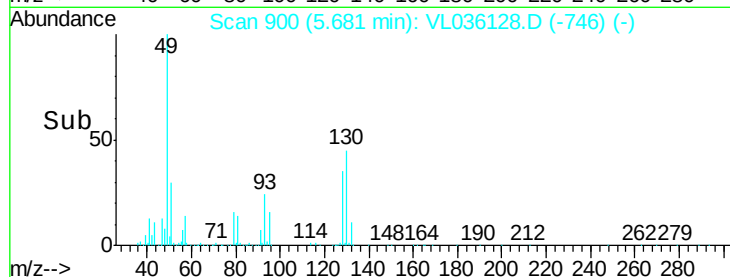
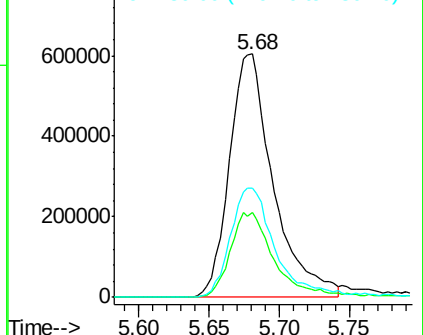
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.345 ppbv m

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL036128.D

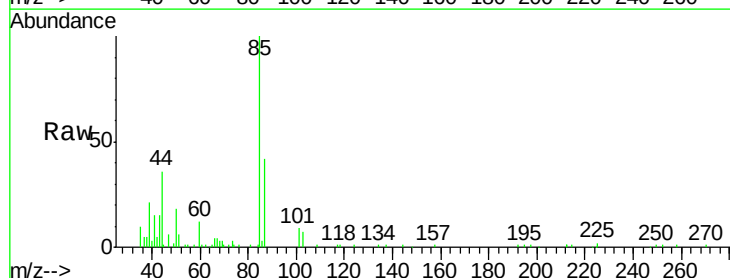
Acq: 9 Dec 2020 12:58

Tgt Ion: 85 Resp: 52871

Ion Ratio Lower Upper

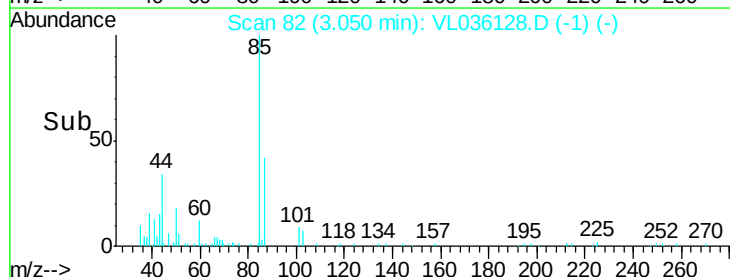
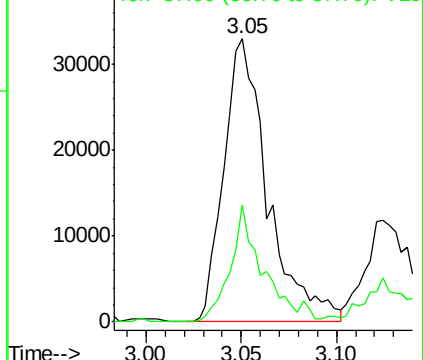
85 100

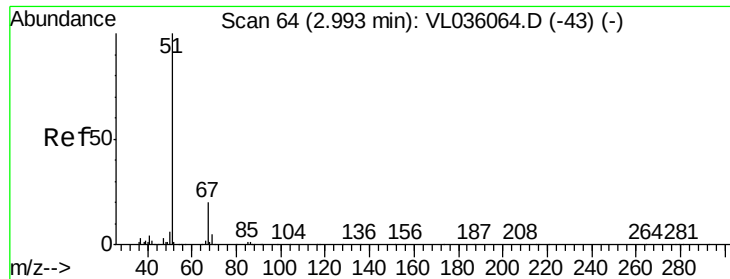
87 41.5 26.5 39.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.499 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL036128.D

Acq: 9 Dec 2020 12:58

Instrument :

MSVOA_L

ClientSampled :

SS-8B

Tot Ion: 51 Resp: 74871

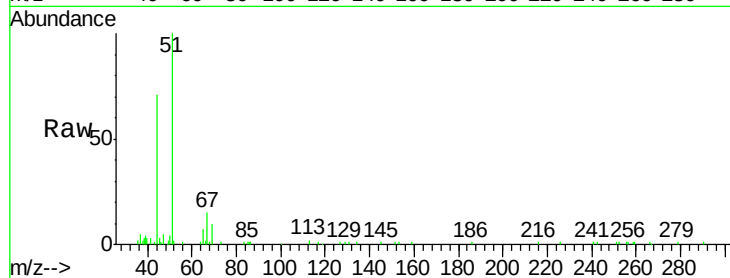
Ion Ratio Lower Upper

51 100

67 0.7 14.3 21.5#

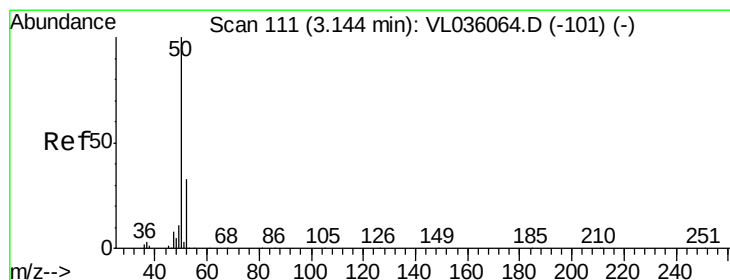
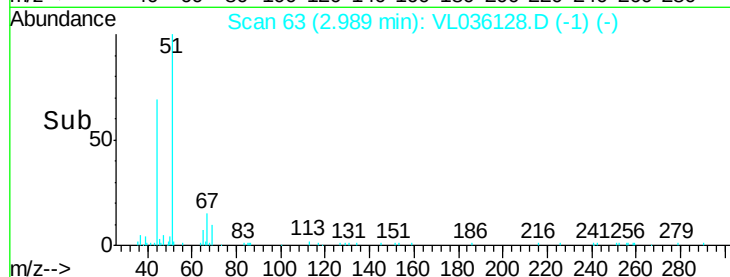
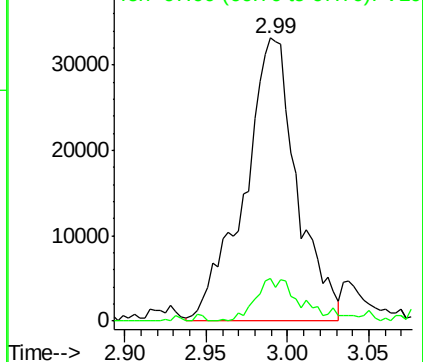
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.289 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036128.D

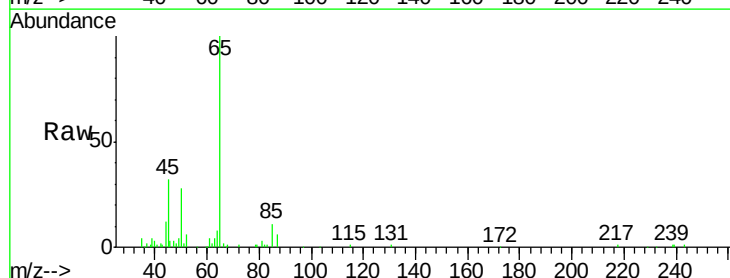
Acq: 9 Dec 2020 12:58

Tgt Ion: 50 Resp: 21306

Ion Ratio Lower Upper

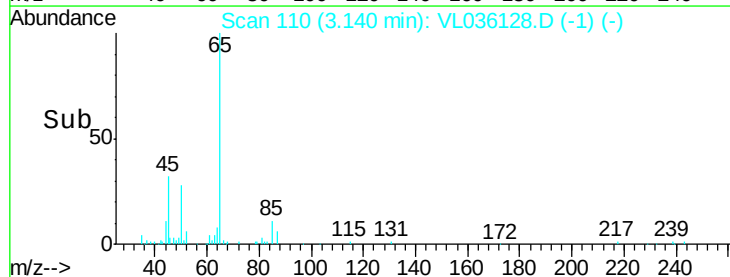
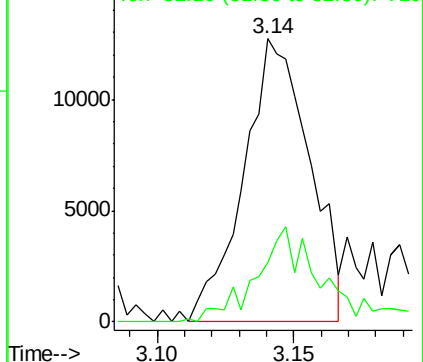
50 100

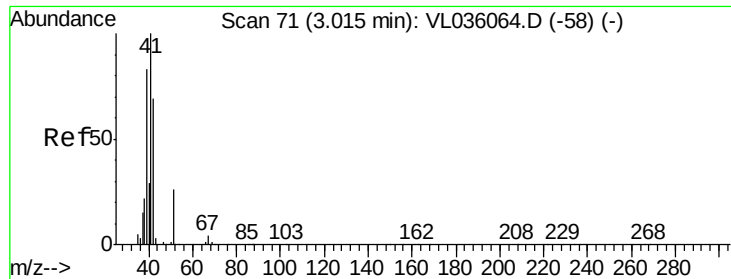
52 19.9 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.578 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL036128.D

Acq: 9 Dec 2020 12:58

Instrument :

MSVOA_L

ClientSampled :

SS-8B

Tot Ion: 41 Resp: 43436

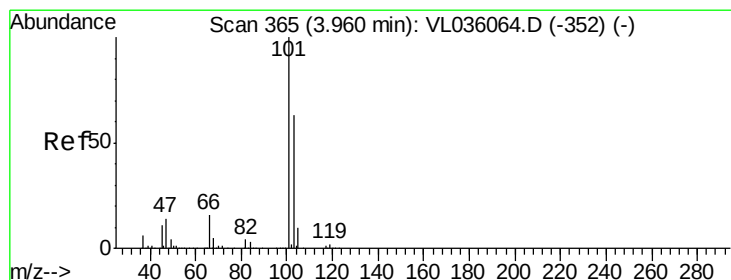
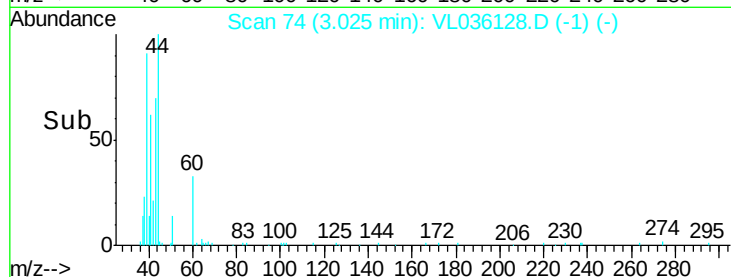
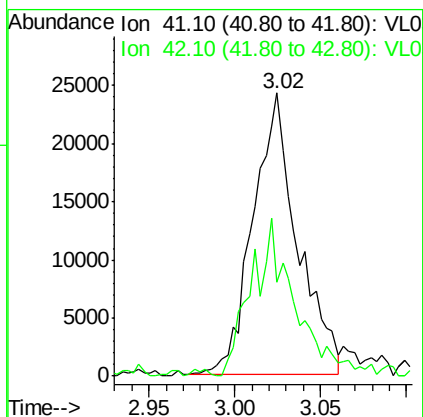
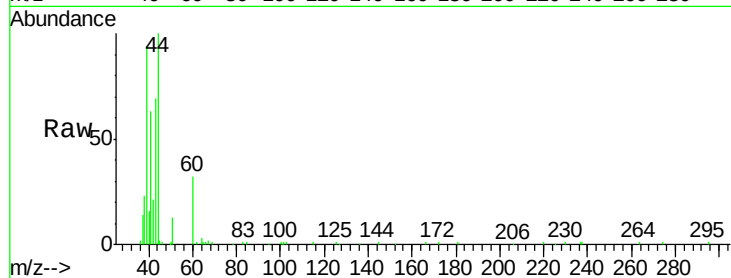
Ion Ratio Lower Upper

41 100

42 58.2 57.0 85.6

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#11

Trichlorofluoromethane

Concen: 0.413 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL036128.D

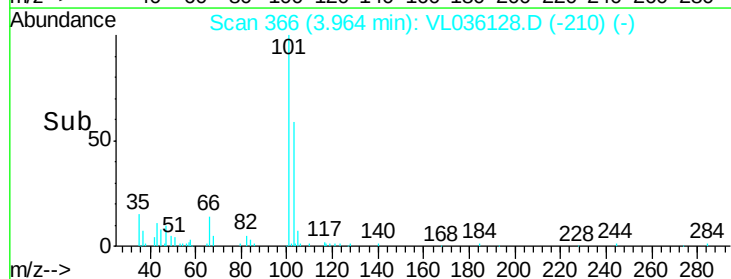
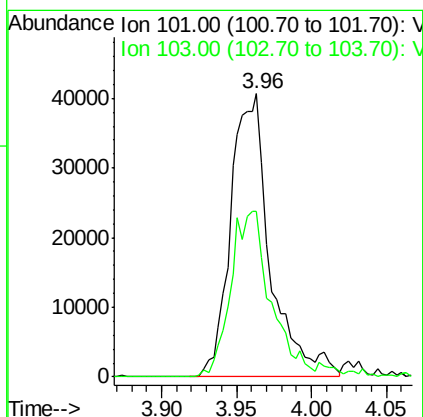
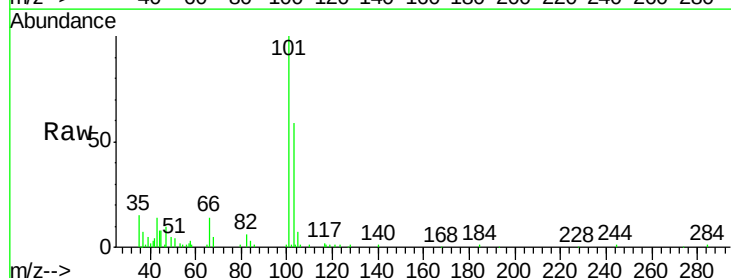
Acq: 9 Dec 2020 12:58

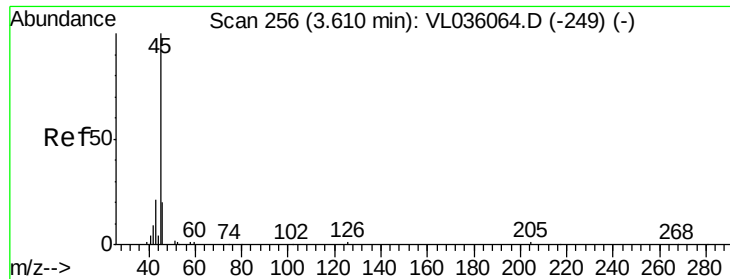
Tgt Ion: 101 Resp: 74414

Ion Ratio Lower Upper

101 100

103 58.6 50.3 75.5





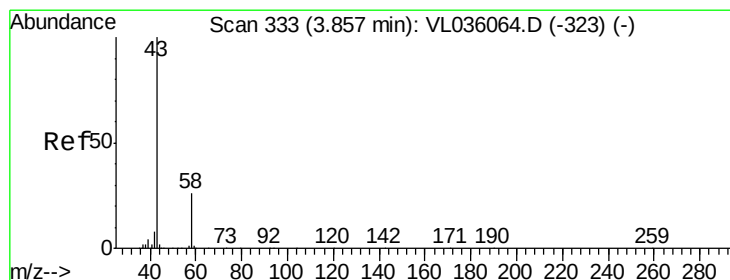
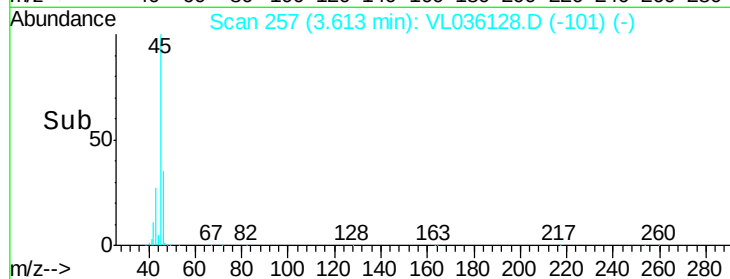
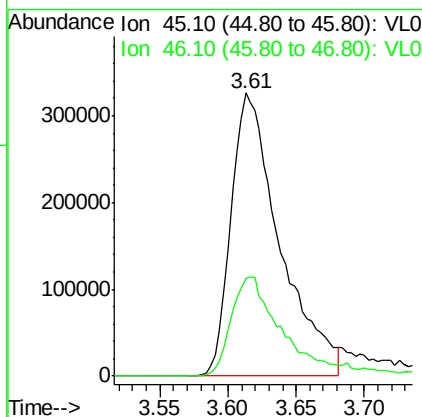
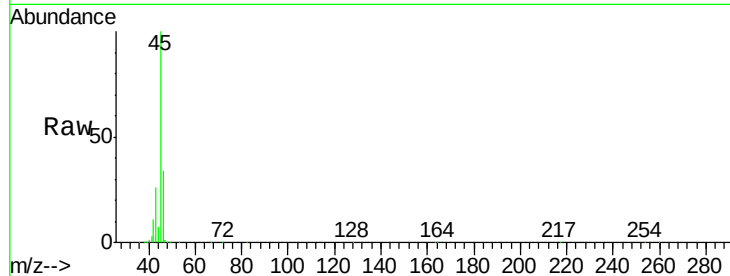
#13
Ethanol
Concen: 78.385 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.00 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Instrument :
MSVOA_L
ClientSampleId :
SS-8B

Tot Ion	45	46	Ratio	Lower	Upper
Resp	811585				
Ion	100	39.0		19.0	75.8

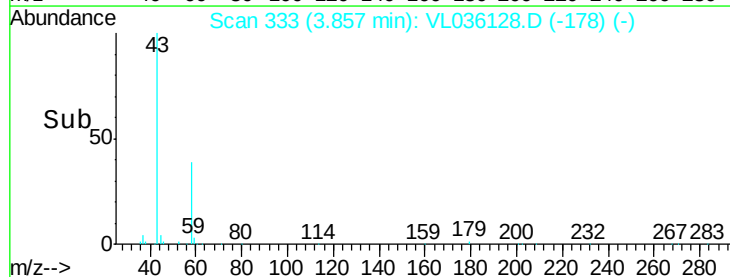
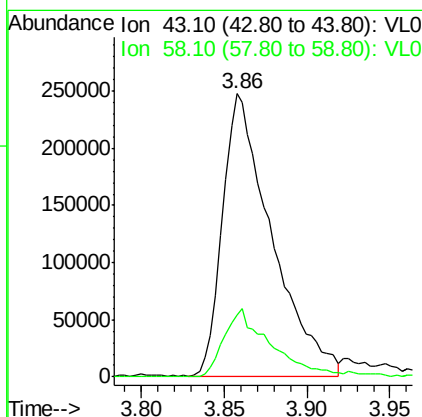
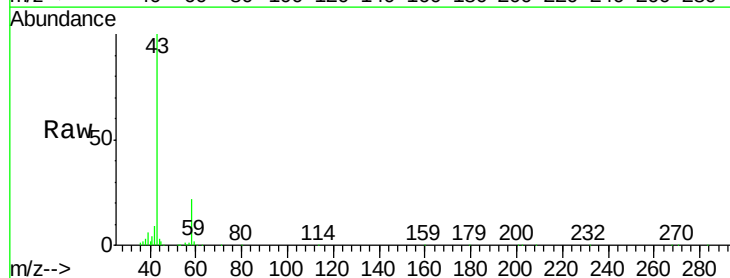
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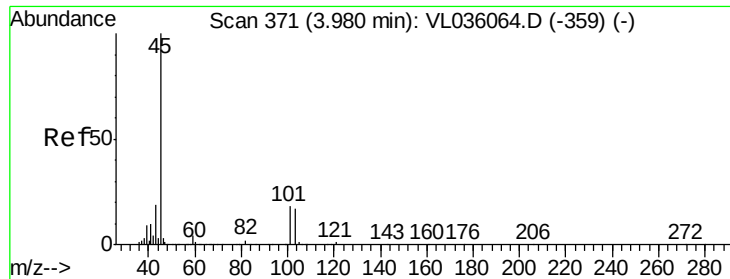
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#15
Acetone
Concen: 3.203 ppbv
RT: 3.86 min Scan# 333
Delta R.T. -0.00 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Tgt Ion	43	58	Ratio	Lower	Upper
Resp	505858				
Ion	100	25.1		20.9	31.3





#19

Isopropyl Alcohol

Concen: 0.635 ppbv m

RT: 3.98 min Scan# 371

Delta R.T. -0.00 min

Lab File: VL036128.D

Acq: 9 Dec 2020 12:58

Instrument :

MSVOA_L

ClientSampled :

SS-8B

Tot Ion: 45 Resp: 61268

Ion Ratio Lower Upper

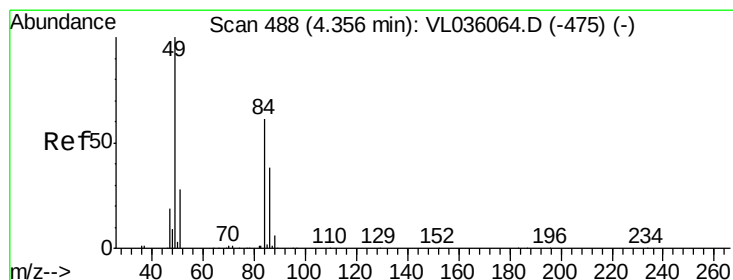
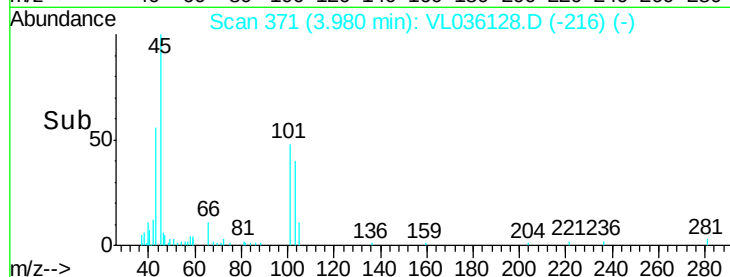
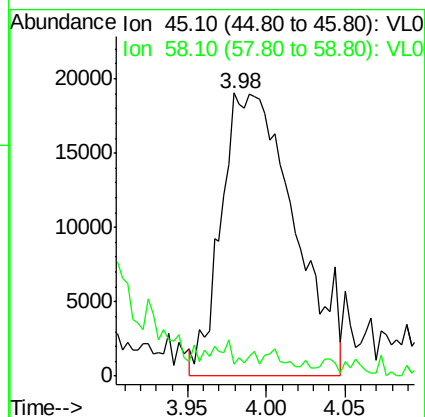
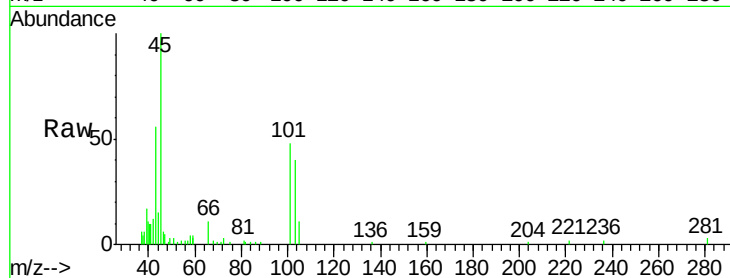
45 100

58 0.0 0.0 0.0

Manual Integrations
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#20

Methylene Chloride

Concen: 18.546 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL036128.D

Acq: 9 Dec 2020 12:58

Tgt Ion: 84 Resp: 1200287

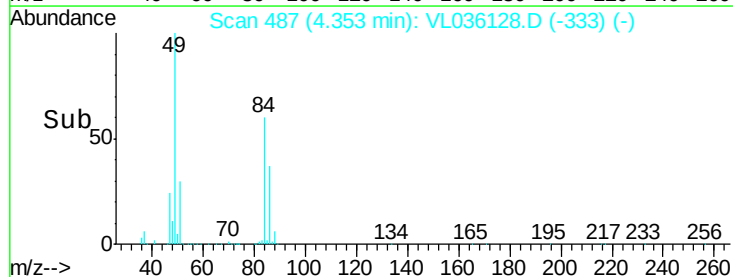
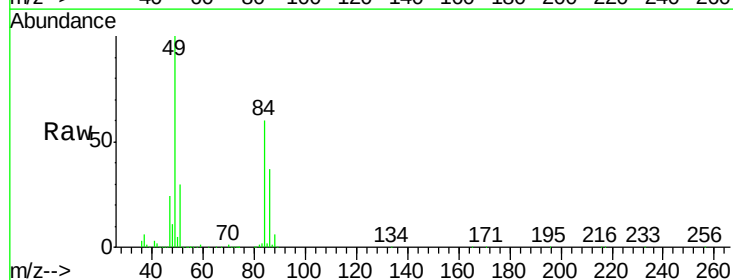
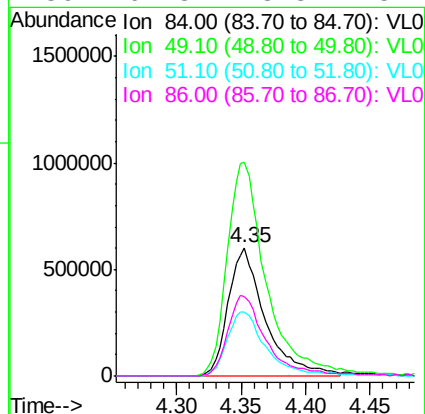
Ion Ratio Lower Upper

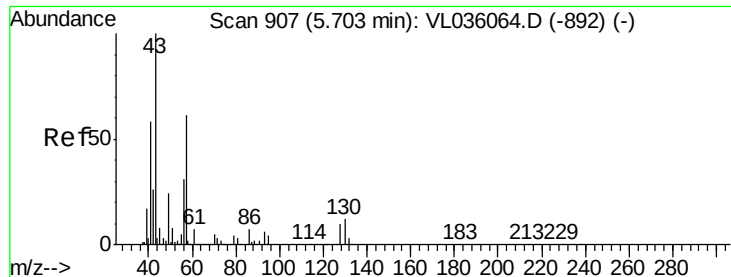
84 100

49 166.4 133.0 199.4

51 49.6 38.9 58.3

86 62.3 48.8 73.2





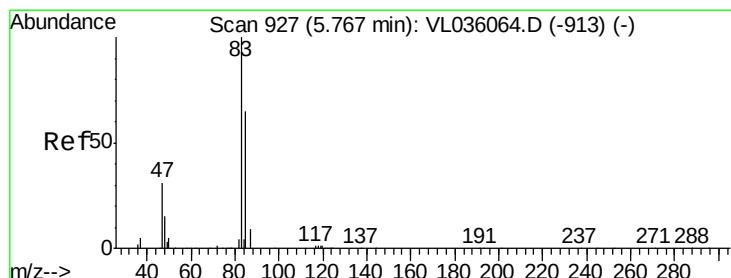
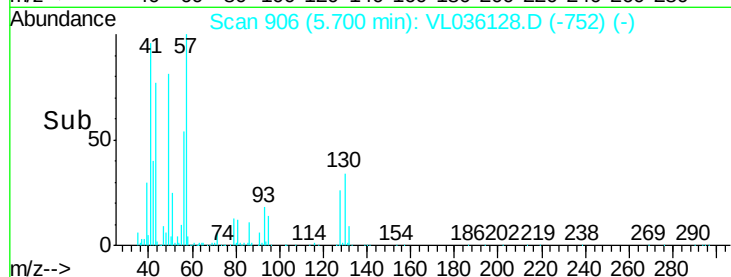
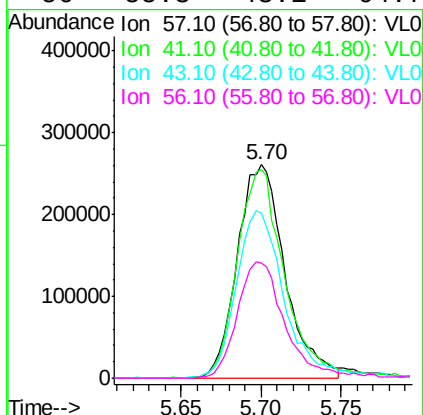
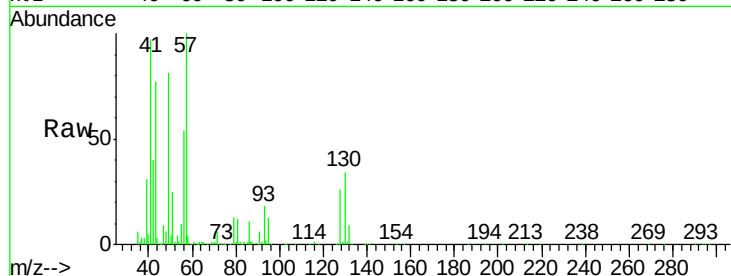
#26
Hexane
Concen: 3.734 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Instrument :
MSVOA_L
ClientSampleId :
SS-8B

Tot Ion	Ratio	Lower	Upper
57	100		
41	99.8	82.9	124.3
43	81.4	199.9	299.9#
56	55.3	43.1	64.7

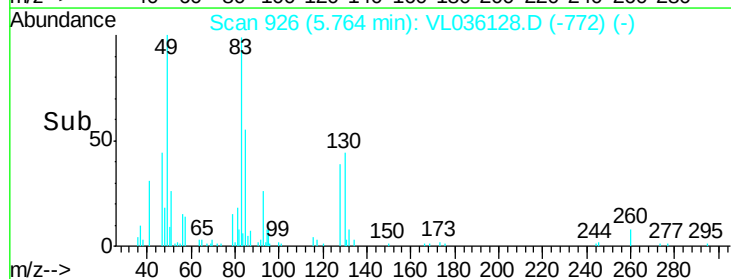
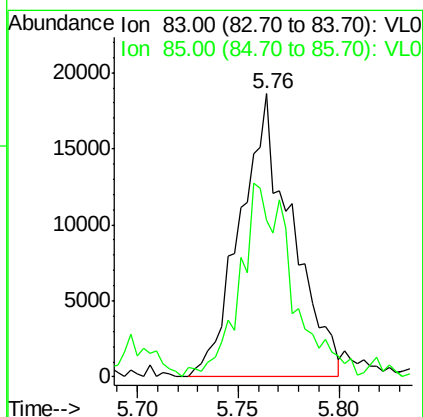
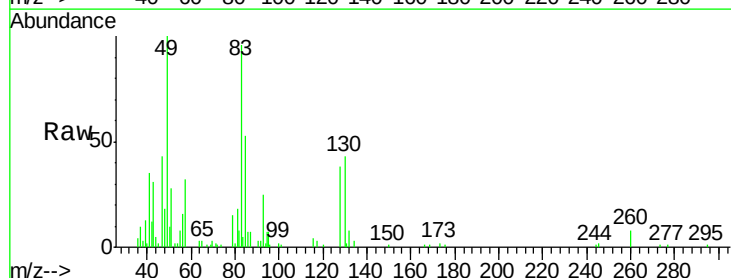
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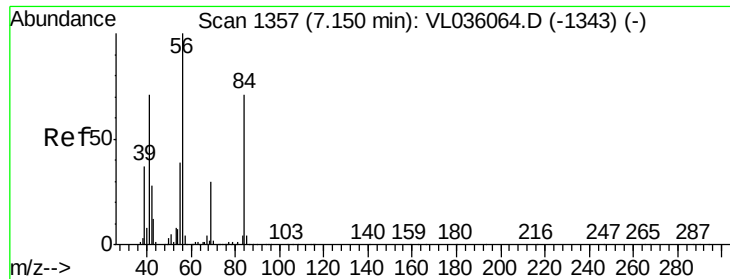
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#29
Chloroform
Concen: 0.178 ppbv
RT: 5.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	52.2	51.8	77.6





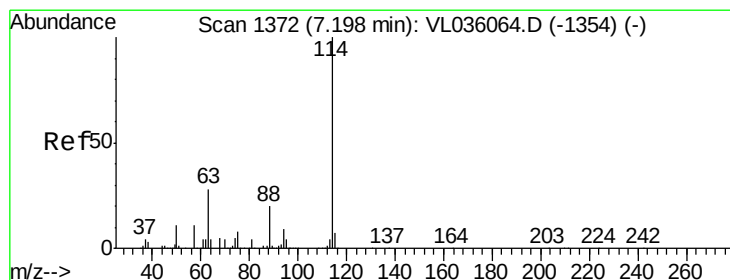
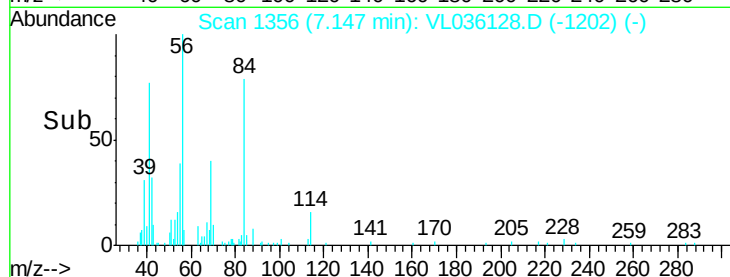
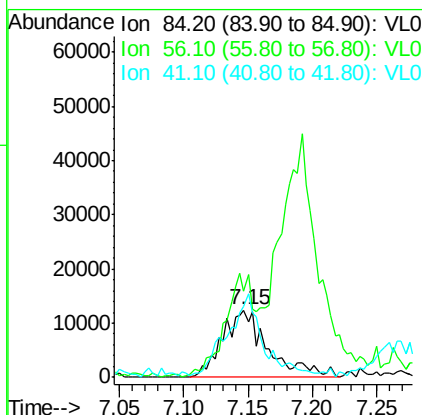
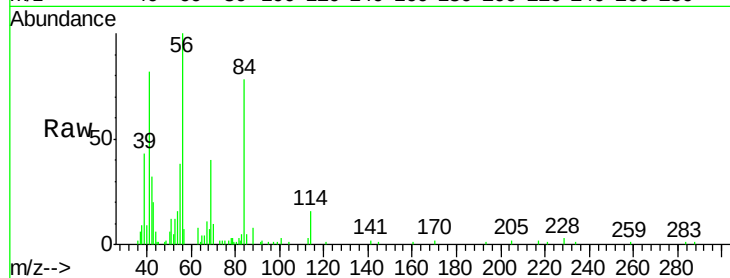
#30
Cyclohexane
Concen: 0.294 ppbv m
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Instrument :
MSVOA_L
ClientSampled :
SS-8B

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	128.0	192.0#
41	0.0	81.3	121.9#

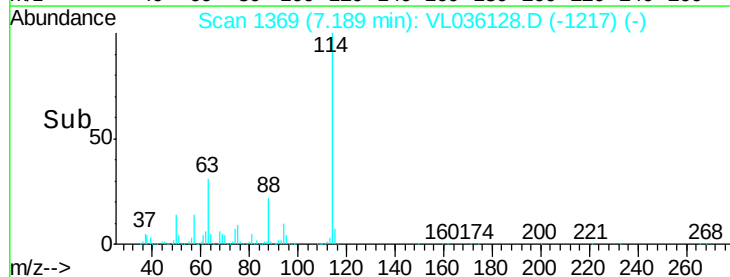
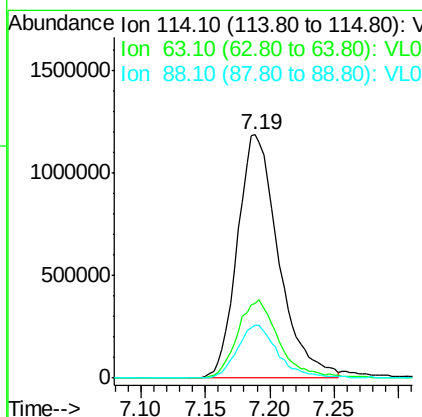
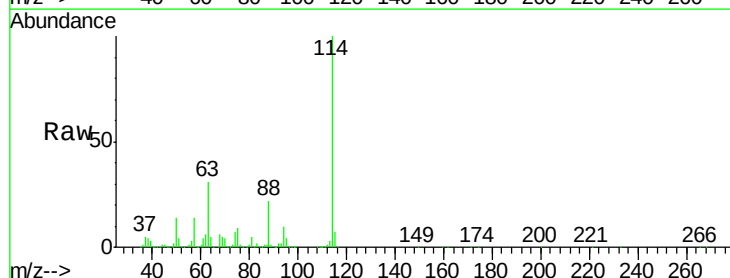
Manual Integrations
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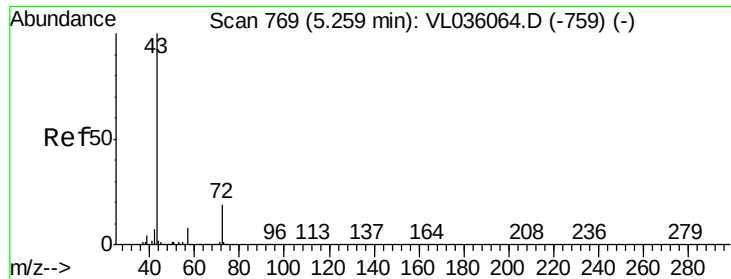
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.01 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	32.5	23.6	35.4
88	21.8	15.8	23.6





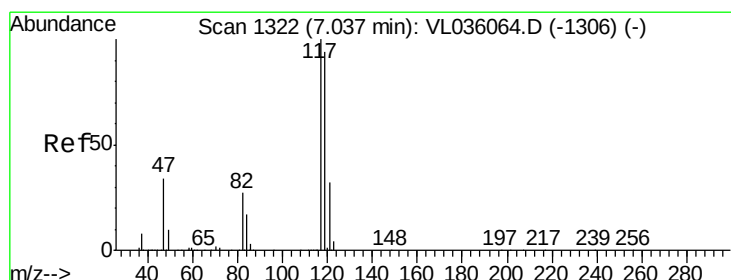
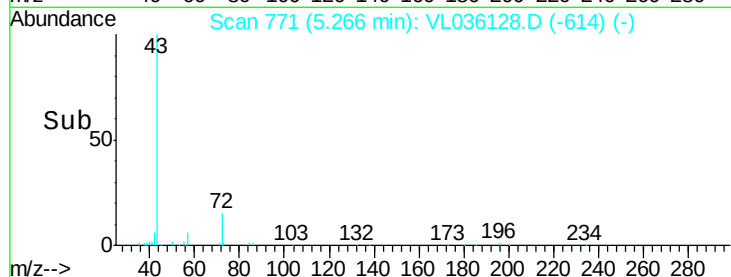
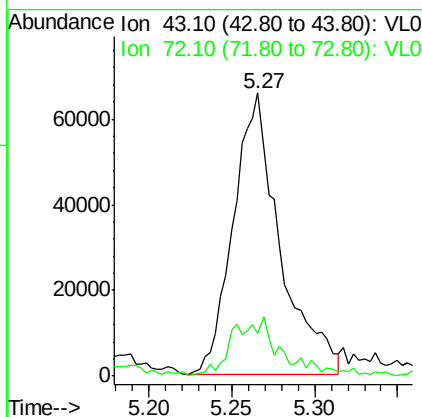
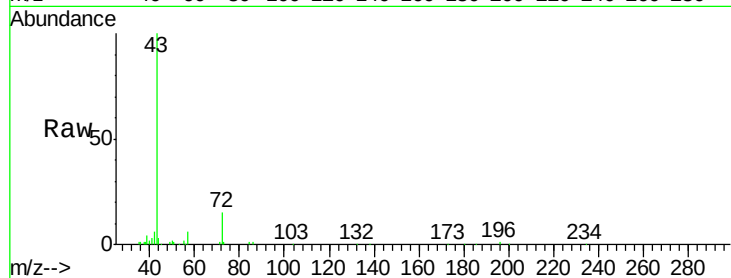
#34
2-Butanone
Concen: 0.732 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.01 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Instrument :
MSVOA_L
ClientSampleId :
SS-8B

Tot Ion	Ratio	Lower	Upper
43	100		
72	21.9	16.5	24.7

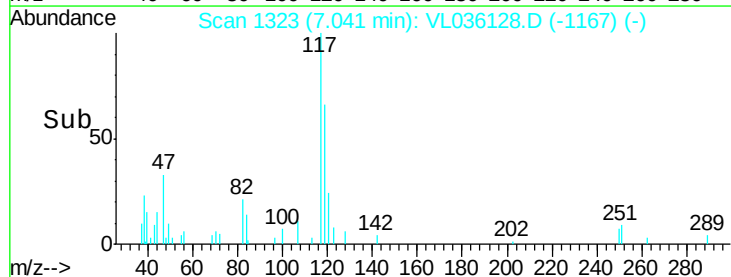
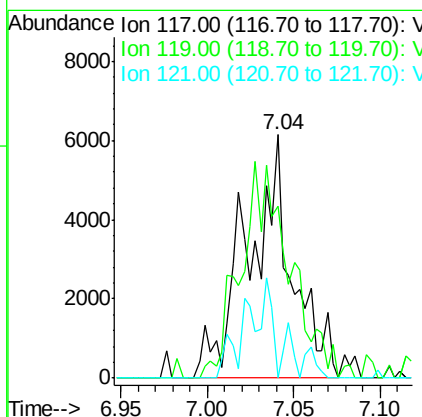
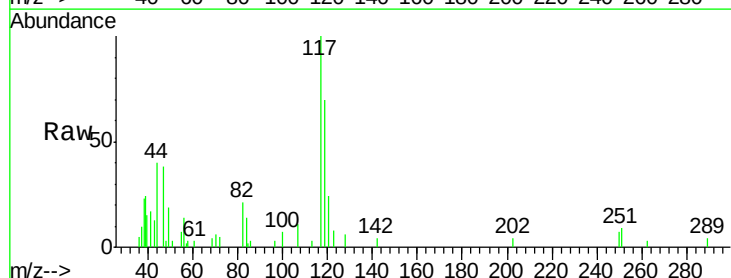
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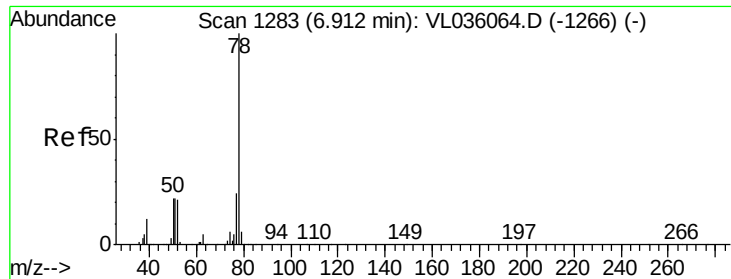
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 7.04 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	70.4	75.1	112.7#
121	0.0	25.6	38.4#





#36

Benzene

Concen: 0.128 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. -0.01 min

Lab File: VL036128.D

Acq: 9 Dec 2020 12:58

Instrument :

MSVOA_L

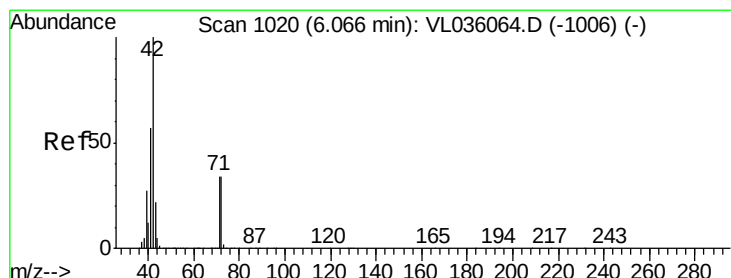
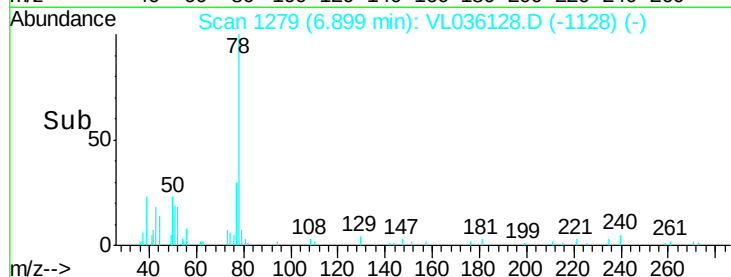
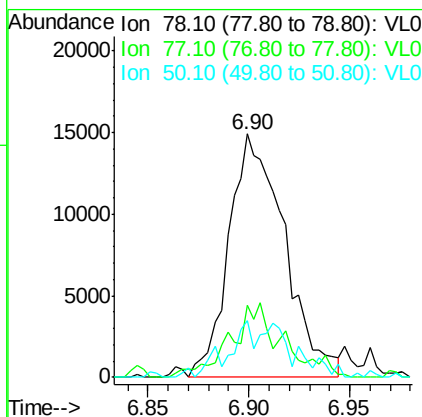
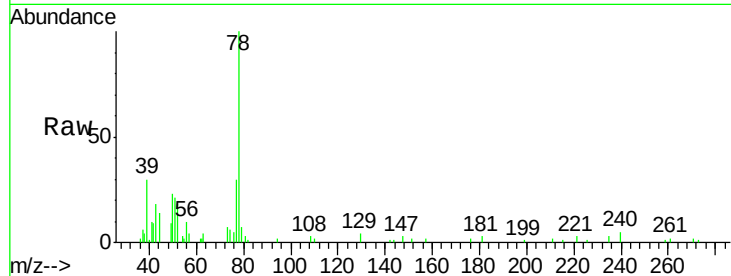
ClientSampleId :

SS-8B

Tot Ion:	78	Resp:	28695
Ion	Ratio	Lower	Upper
78	100		
77	28.5	19.4	29.2
50	19.3	17.8	26.8

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#41

Tetrahydrofuran

Concen: 0.164 ppbv

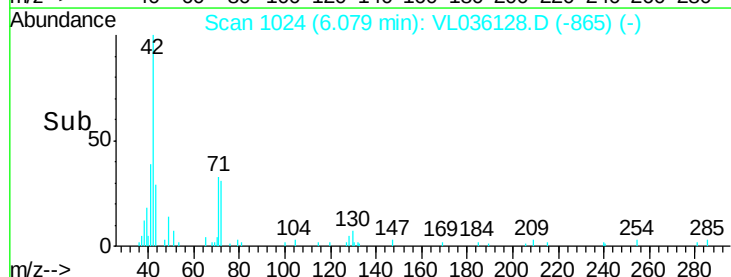
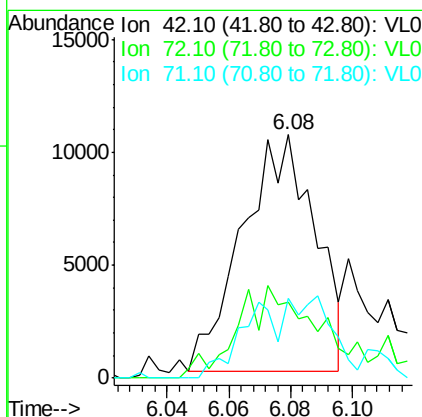
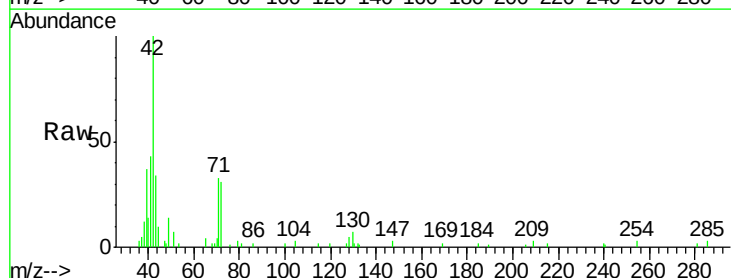
RT: 6.08 min Scan# 1024

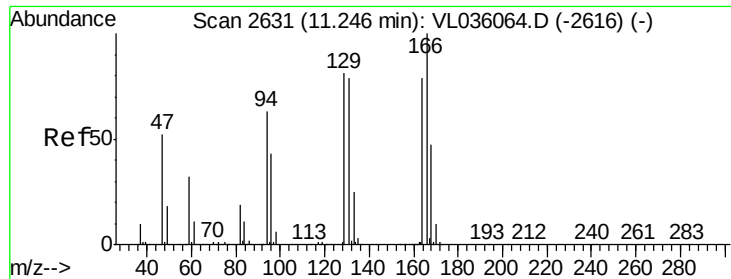
Delta R.T. 0.01 min

Lab File: VL036128.D

Acq: 9 Dec 2020 12:58

Tgt Ion:	42	Resp:	17093
Ion	Ratio	Lower	Upper
42	100		
72	50.9	28.3	42.5#
71	43.5	27.3	40.9#





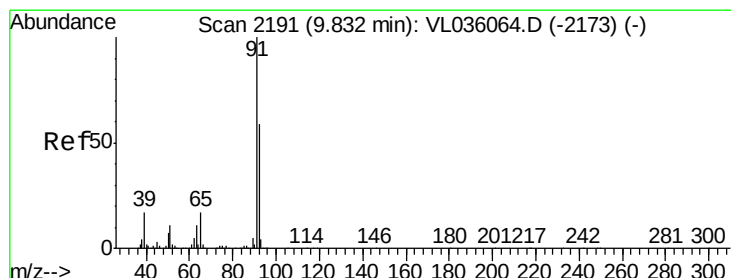
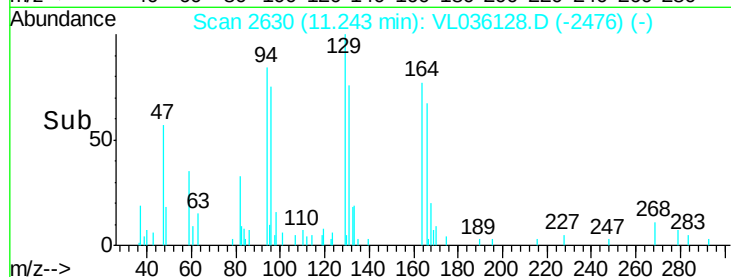
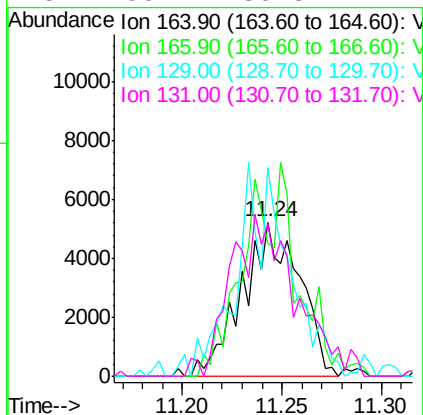
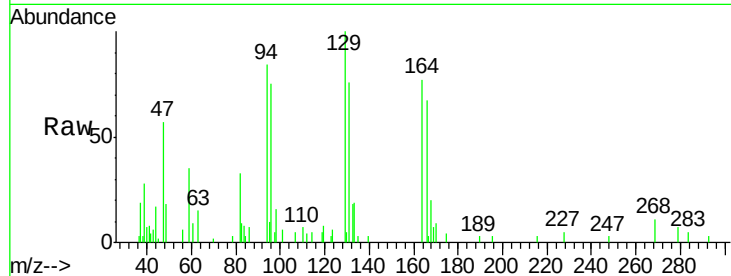
#52
Tetrachloroethene
Concen: 0.128 ppbv m
RT: 11.24 min Scan# 2630
Delta R.T. -0.00 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Instrument :
MSVOA_L
ClientSampleId :
SS-8B

Tot Ion	Ratio	Lower	Upper
164	100		
166	86.8	101.9	152.9#
129	129.8	82.1	123.1#
131	99.1	80.8	121.2

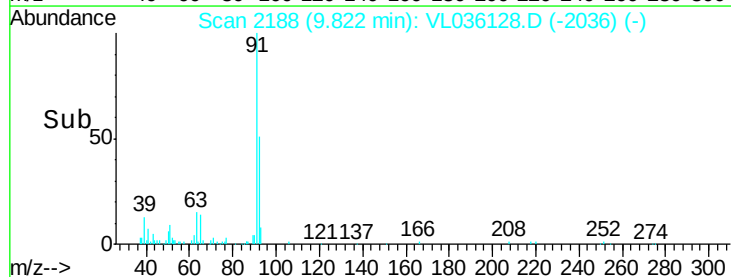
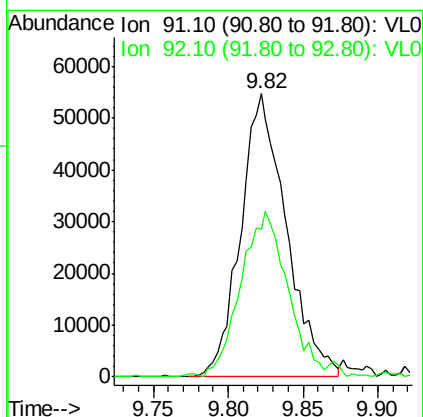
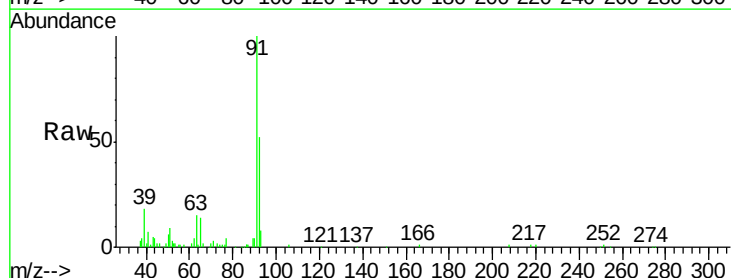
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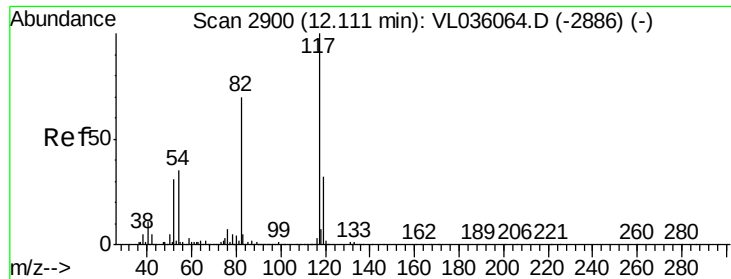
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#53
Toluene
Concen: 0.461 ppbv
RT: 9.82 min Scan# 2188
Delta R.T. -0.01 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.4	48.2	72.2





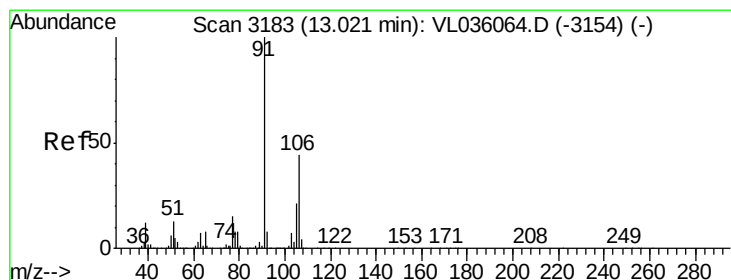
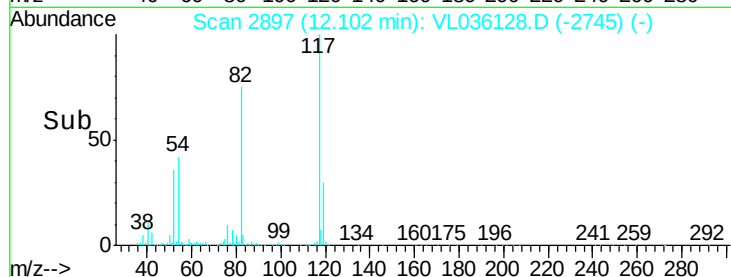
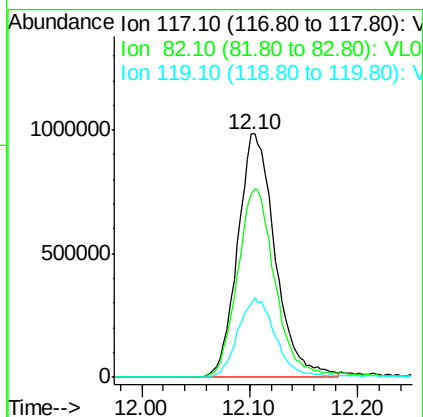
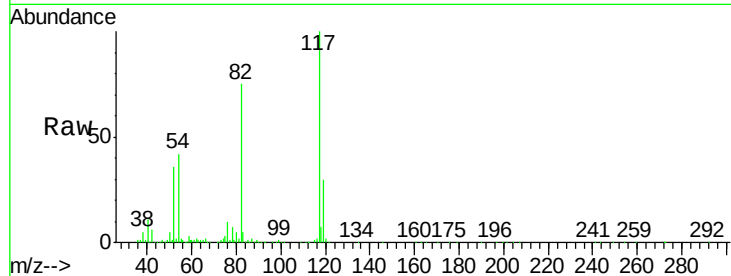
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Instrument :
MSVOA_L
ClientSampleId :
SS-8B

Tot Ion	Ratio	Lower	Upper
117	100		
82	79.4	0.0	0.0#
119	33.0	0.0	0.0#

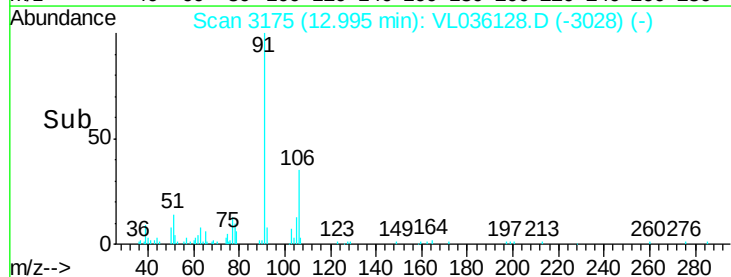
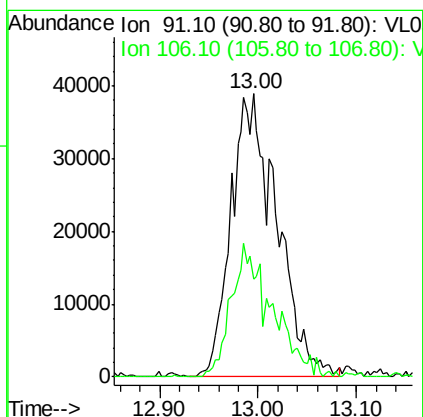
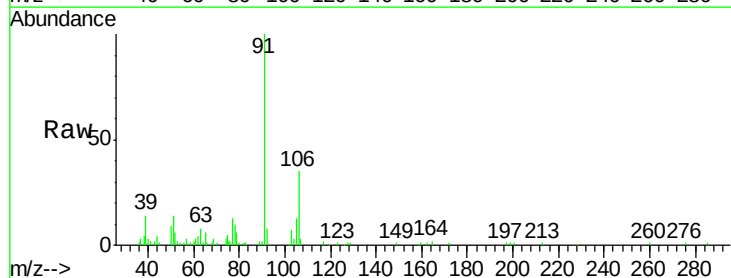
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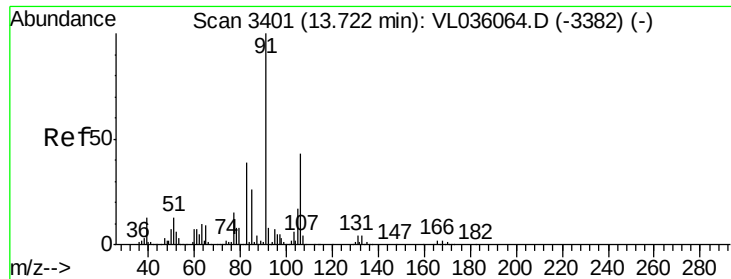
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#59
m/p-Xylene
Concen: 0.457 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. -0.03 min
Lab File: VL036128.D
Acq: 9 Dec 2020 12:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	33.6	50.4#





#60

o-Xylene

Concen: 0.182 ppbv m

RT: 13.71 min Scan# 3398

Delta R.T. -0.01 min

Lab File: VL036128.D

Acq: 9 Dec 2020 12:58

Instrument :

MSVOA_L

ClientSampleId :

SS-8B

Tot Ion: 91 Resp: 47126

Ion Ratio Lower Upper

91 100

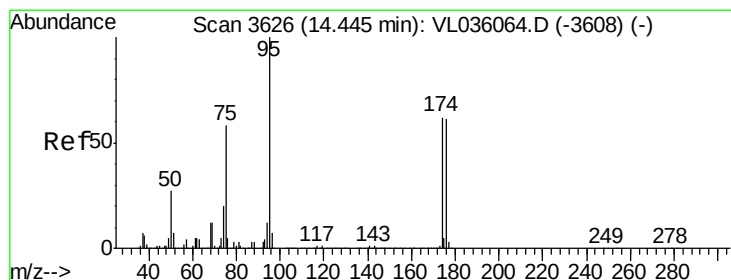
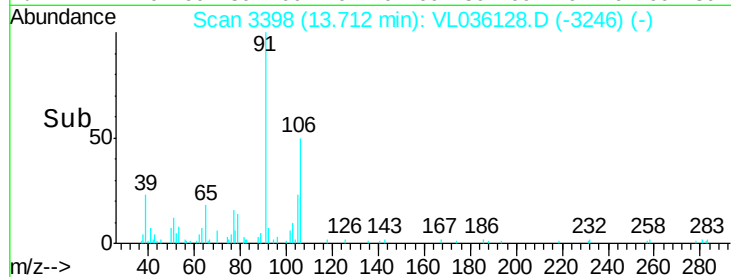
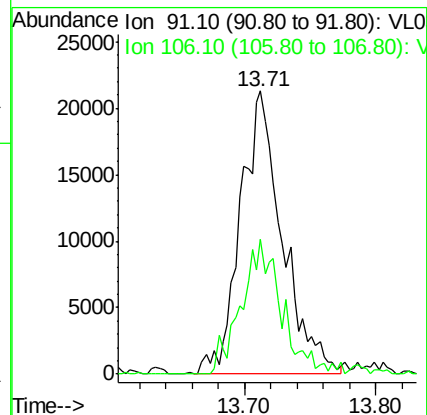
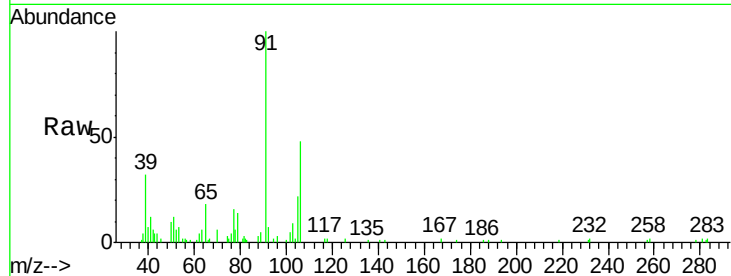
106 46.0 21.6 64.6

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.776 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.01 min

Lab File: VL036128.D

Acq: 9 Dec 2020 12:58

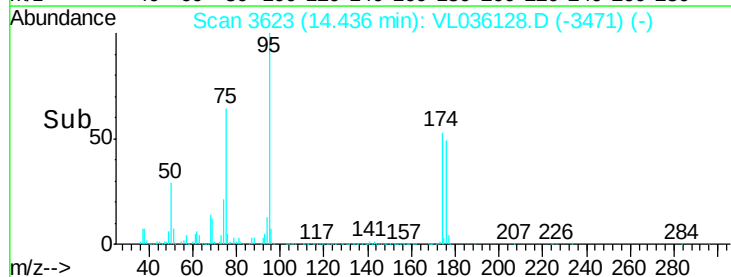
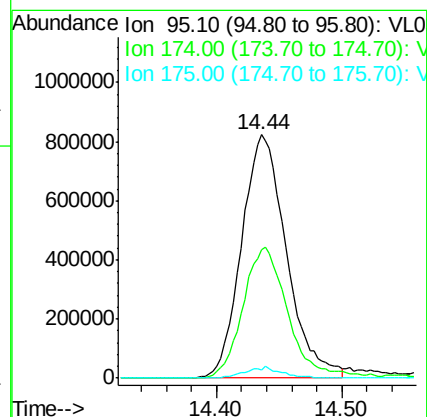
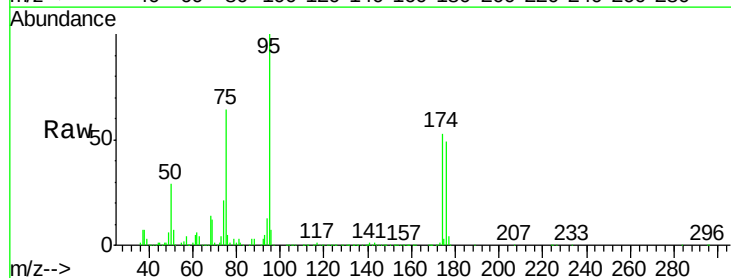
Tgt Ion: 95 Resp: 2040772

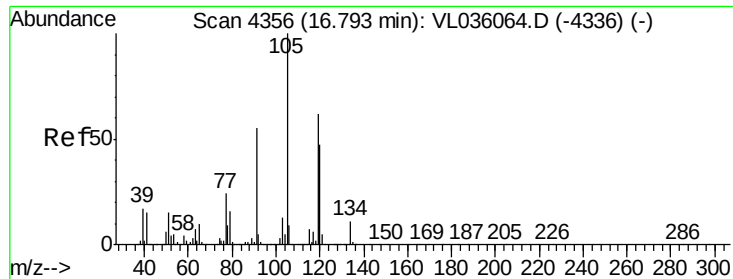
Ion Ratio Lower Upper

95 100

174 56.0 50.7 76.1

175 4.0 4.0 6.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.134 ppbv m
 RT: 16.78 min Scan# 4353
 Delta R.T. -0.01 min
 Lab File: VL036128.D
 Acq: 9 Dec 2020 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-8B

Tot Ion:	105	Resp:	36227
Ion Ratio		Lower	Upper
105	100		
120	25.8	37.4	56.0#
91	22.4	45.6	68.4#
77	16.5	19.4	29.2#

Manual Integrations
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